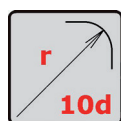
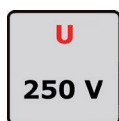
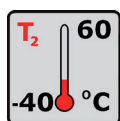
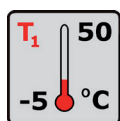


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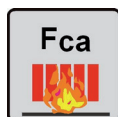


ZÁKLADNÉ VLASTNOSTI KÁBLA BASIC CHARACTERISTICS OF THE CABLE

ELEKTRICKÉ / ELECTRIC



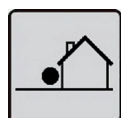
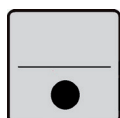
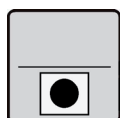
POŽIARNOTECHNICKÉ / FIRE-FIGHTING



KONŠTRUKCIA KÁBLA CONSTRUCTION OF THE CABLE

- Medený vodič
Copper conductor
- Izolácia z penového+plného polyetylénu (foam-skin)
Insulation layer from a foam + solid polyethylene (foam-skin)
- Vodoblokujúca vazelína
Water-protecting petroleum jelly
- Obvodová izolácia z nehydroskopickéj fólie
Circuit insulation from non-hygroscopic foils
- Tieniaca Al + kopolymér fólia
Aluminium + copolymer screening foil
- Polyetylénový plášť - čierny
Polyethylene sheath - black

POUŽITIE KÁBLA CABLE APPLICATION



NORMY STANDARDS

TPEFK 03-01-2004/104
STN EN 60708
STN EN 50575



TCEPKPFLE



Označenie káblov - str. 124 -125 / Cable labeling – page 124-125

Farebné kódy - str. 126 - 131 / Color codes – page 126 - 131

Minimálne hrúbky plášťa, informatívne priemery a hmotnosti káblov, výrobné dĺžky.

Minimal thickness of the sheath, diameters and weight of cables, production lengths.

| p | Ø 0,4 mm | | | | Ø 0,6 mm | | | | Ø 0,8 mm | | | |
|----|--------------------------|-----------|--------------|----------|--------------------------|-----------|--------------|----------|--------------------------|-----------|--------------|----------|
| | t _{min} [mm] | d [mm] | m [kg/km] | l [m] | t _{min} [mm] | d [mm] | m [kg/km] | l [m] | t _{min} [mm] | d [mm] | m [kg/km] | l [m] |
| 1 | 1,0 | 6,5 | 34 | 1000 | 1,0 | 6,5 | 47 | 1000 | 1,2 | 7,5 | 71 | 1000 |
| 3 | 1,4 | 7,5 | 66 | 1000 | 1,4 | 8,5 | 107 | 1000 | 1,4 | 13,0 | 162 | 1000 |
| 5 | 1,4 | 10,5 | 88 | 1000 | 1,4 | 11,0 | 149 | 1000 | 1,4 | 15,0 | 243 | 1000 |
| 10 | 1,4 | 12,3 | 136 | 1000 | 1,4 | 15,5 | 256 | 1000 | 1,4 | 18,5 | 407 | 1000 |
| 15 | 1,4 | 13,5 | 198 | 1000 | 1,4 | 17,8 | 365 | 1000 | 1,4 | 22,5 | 585 | 1000 |
| 20 | 1,4 | 14,5 | 252 | 1000 | 1,4 | 18,6 | 475 | 1000 | 1,4 | 25,5 | 786 | 500 |
| 25 | 1,4 | 16,5 | 305 | 1000 | 1,4 | 23,5 | 580 | 1000 | 1,6 | 30,0 | 974 | 500 |
| 35 | 1,4 | 18,5 | 382 | 1000 | 1,4 | 24,8 | 741 | 500 | 1,6 | 30,5 | 1282 | 500 |
| 50 | 1,4 | 21,5 | 553 | 500 | 1,6 | 28,5 | 1048 | 500 | - | - | - | - |

p – počet prvkov (number of components)

t_{min} – minimálna hrúbka plášťa (minimal thickness of the sheath)

d – informatívny priemer kábla nad PE plášťom (informative diameter of the cable over the sheath)

m – informatívna hmotnosť kábla (informative weight of the cable)

l – výrobná dĺžka (production length)

PRENOSOVÉ PARAMETRE / TRANSMISSION PARAMETERS

| Priemer vodičov - Diameter of conductors | | Ø | Ø | Ø | |
|--|---|-------------------|-------------------|-------------------|----|
| | | 0,4 mm | 0,6 mm | 0,8 mm | |
| Max.odpor elektrickej slučky [Ω/km] - Max. loop resistance, [Ω/km] | | 300 | 133,2 | 73,6 | |
| Elektrický odpor vodiča [Ω/km] Electrical resistance of the conductor [Ω/km] | priemer - average | 144 | 64 | 35 | |
| | jednot. - one | 150 | 67 | 37 | |
| Odporová nerovnováha páru [%] - Resistance unbalance pair [%] | | ≤ 2 | ≤ 2 | ≤ 2 | |
| Prevádzková kapacita páru [nF/km] Mutual capacitance [nF/km] | max.stred ¹⁾ - max. mid. ¹⁾ | 42 | 42 | 42 | |
| | max.jedn. - max. one | 42±4 | 42±4 | 42±4 | |
| Kapacitná nerovnováha k ₁ [pF/500m] Capacitance unbalance k ₁ [pF/500m] | 95 % hodnôt - value | < 150 | < 150 | < 100 | |
| | max.jedn. - max. one | 250 | 250 | 160 | |
| Kapacitná nerovnováha k ₉₋₁₂ [pF/500m] Capacitance unbalance k ₉₋₁₂ [pF/500m] | 95 % hodnôt - value | < 500 | < 500 | < 300 | |
| | max.jedn. - max. one | 800 | 800 | 500 | |
| Kapacitná nerovnováha e ₁ -e ₂ [pF/500m] Capacitance unbalance e ₁ -e ₂ [pF/500m] | 95 % hodnôt - value | < 500 | < 500 | < 300 | |
| | max.jedn. - max. one | 800 ²⁾ | 800 ²⁾ | 500 ²⁾ | |
| Maximálne merné tlmenie [dB/km] Attenuation, max [dB/km] | 0,8 kHz | 1,55 | 1 | 0,75 | |
| | 16 kHz | 6,7 | 3,8 | 3 | |
| | 150 kHz | 12 | 7 | 4,6 | |
| | 1 MHz | 23,5 | 17,5 | 12,4 | |
| | 2 MHz | 35,7 | 22,5 | 16 | |
| Presluchové tlmenie na blízkom konci [dB/300m] Crosstalk at near-end [dB/300m] | 80 kHz | 100% | 57 | 60 | 61 |
| | | 90% | 62 | 64 | 66 |
| | 150 kHz | 100% | 50 | 53 | 54 |
| | | 90% | 55 | 57 | 59 |
| | 1 MHz | 100% | 37 | 40 | 41 |
| | | 90% | 42 | 44 | 46 |
| | 2 MHz | 100% | 32 | 35 | 36 |
| | | 90% | 37 | 39 | 41 |

POZNÁMKA 1: Platí len pre 10 štvoriek a viac. NOTE 1: Valid only for 10 quads and more.

POZNÁMKA 2: Pre konštrukciu 1x4 je maximálna hodnota 1700 pF/500 m.

NOTE 2: For the construction 1x4 is the maximum value 1700 pF/500 m.